

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WGEC/0028pct	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/023120	International filing date (day/month/year) 16/07/2004	(Earliest) Priority Date (day/month/year) 04/04/2004
Applicant  WESTERNGECO, L.L.C.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/US2004/023120

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 G01V1/36

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**
 Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 G01V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

 Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
 EPO-Internal, WPI Data, INSPEC, COMPENDEX
**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DRAGOSET W H ET AL: "Some remarks on surface multiple attenuation" GEOPHYSICS SOC. EXPLORATION GEOPHYSICISTS USA, vol. 63, no. 2, April 1998 (1998-04), pages 772-789, XP002314826 ISSN: 0016-8033 page 777, left-hand column, line 16 - line 26 page 778, left-hand column, line 46 - right-hand column, line 22 page 778, right-hand column, line 36 - line 46	22,23
A	----- -/--	1-21, 24-27

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## ° Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

25 January 2005

Date of mailing of the international search report

17/02/2005

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Swartjes, H

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/023120

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 887 243 A (PANN ET AL) 12 December 1989 (1989-12-12) column 5, line 48 - line 66 -----	1,12
A	US 6 169 959 B1 (DRAGOSSET JR. WILLIAM HENRY) 2 January 2001 (2001-01-02) -----	
A	US 5 430 689 A (RIGSBY ET AL) 4 July 1995 (1995-07-04) -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/023120

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4887243	A	12-12-1989	EP NO	0112715 A2 834762 A	04-07-1984 28-06-1984
US 6169959	B1	02-01-2001	AU CA FR GB	3637300 A 2308775 A1 2794249 A1 2350427 A	30-11-2000 27-11-2000 01-12-2000 29-11-2000
US 5430689	A	04-07-1995	NONE		